



August 26, 2014

Pam King
Washington Holdings
600 University Street, Suite 2820
Seattle, WA 98101

RE: Water Quality Testing, EPA Tenant Improvement Project
Sampling Event #11 – Repeat Sampling on Floor 15
Park Place Building
1200 6th Avenue
Seattle, Washington
RGA Job# R3137233

On August 22, 2014, Emily Kahler, Industrial Hygienist for RGA Environmental, A Terracon Company (RGA) conducted drinking water testing for lead and copper at the above captioned site. Testing conducted in accordance with EPA-812-B-94-002 was used to collect repeat samples from floor 15. The purpose of the testing was to evaluate plumbed drinking water sources following tenant improvement renovations. Ms. Kahler was escorted by Building Security.

SAMPLING PROCEDURES

A total of two (2) drinking water samples were collected during the sampling event. Samples were collected in sample bottles provided by the Aquatic Research, Inc. (250 ml, polyethylene with nitric acid preservative). Samples were analyzed for lead and copper in drinking water using EPA Method 200.8.¹ Drinking water samples were collected from the men's restroom on the 15th floor at the Park Place building in Seattle, Washington.

The sampling protocol for the water fountains and restroom faucets consisted of a "first draw" sample (first water out of the tap following at least 8 hours of non-use) and a "secondary draw" sample (water collected after 30 seconds of flushing).

SAMPLE RESULTS

Table 1 below presents the sample results for samples (lead & copper) collected on August 15, 2014.

¹ The water samples collected were submitted to Aquatic Research, Inc. (lead and copper) in Seattle, Washington for analysis.

Table 1—Lead Water Sample Results – August 22, 2014

Location	SAMPLE ID	Lead (Pb) µg/l)	Copper (Cu) µg/l)	Lead Result	Copper Result
FLOOR 15					
15 th floor Men' Restroom Sink	15-MR-FD-207	7.3	118	Pass	Pass
	15-MR-SD-208	<1.0	103	Pass	Pass
EPA Standard*		0 AL: 15 µg/L	AL: 1300 µg/L		

*EPA Drinking Water Maximum Contaminant Levels

FD=First Draw

SD=Second Draw

MR=Men's Restroom

CONCLUSIONS

One of the two water samples collected contained no detectable concentrations of lead (above 1 µg/L). One of the two samples contained detectable lead concentrations between 1 and 15 µg/L. No remedial or mitigation action is required for locations with sample results below the Drinking Water action level.

All samples contained copper concentrations between 4 and 1300 µg/L. No remedial or mitigation action is required for locations with sample results below the Drinking Water action level.

LIMITS OF SURVEY

This report does not represent all conditions at the subject site as it only reflects the information gathered from specific locations. Observation or sampling of other work areas was not within the scope of RGA's work and was not performed.

This report was prepared pursuant to the contract RGA has with the client. Unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

RGA appreciates the opportunity to provide you with technical support on this project. If you have any questions, please contact the undersigned at 206-281-8858.

Report Prepared by,



Eric Hartman, CIH
Senior Project Manager
RGA Environmental, a Terracon Company.

Attachments:

Lab Report



IEH - AQUATIC RESEARCH
LABORATORY & CONSULTING SERVICES
3927 AURORA AVENUE NORTH, SEATTLE, WA 98103
PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	RGA001-04	PAGE 1
REPORT DATE:	08/26/14	
DATE SAMPLED:	08/22/14	DATE RECEIVED: 08/22/14
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM RGA ENVIRONMENTAL		

CASE NARRATIVE

Two water samples were received by the laboratory in good condition and analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on the subsequent pages.

SAMPLE DATA

SAMPLE ID	LEAD (ug/L)	COPPER (ug/L)
15-MR-FD-207	7.3	118
15-MR-SD-208	<1.0	103



IEH - AQUATIC RESEARCH
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CASE FILE NUMBER:	RGA001-04	PAGE 2
REPORT DATE:	08/26/14	
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FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM RGA ENVIRONMENTAL		

QA/QC DATA

QC PARAMETER	LEAD (ug/L)	COPPER (ug/L)
METHOD	EPA 200.8	EPA 200.8
DATE ANALYZED	08/22/14	08/22/14
REPORTING LIMIT	1.0	4.0
DUPLICATE		
SAMPLE ID	15-MR-FD-207	15-MR-FD-207
ORIGINAL	7.3	118
DUPLICATE	7.1	116
RPD	1.71%	1.63%
SPIKE SAMPLE		
SAMPLE ID	15-MR-FD-207	15-MR-FD-207
ORIGINAL	7.3	118
SPIKED SAMPLE	55.0	166
SPIKE ADDED	50.0	50.0
% RECOVERY	95.53%	94.50%
QC CHECK		
FOUND	48.8	49.0
TRUE	50.0	50.0
% RECOVERY	97.60%	98.00%
BLANK	<1.0	<4.0

RPD = RELATIVE PERCENT DIFFERENCE.

NA = NOT APPLICABLE OR NOT AVAILABLE.

NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.

OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TOO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Damien Gadomski
Project Manager



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KGA 601-04

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Chain of Custody Form

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REPORT TO: Client: <u>Light EN. a Terraccon Company</u> Address: <u>3317 3rd Ave S Bldg 2</u> <u>Seattle WA 98134</u> Contact: <u>Eric Hartman</u> Email: <u>eric.hartman@terraccon.com</u> Phone: <u>206-281-8858</u> Fax: _____				INVOICE TO: (IF DIFFERENT FROM REPORT) Client: _____ Address: _____ Contact: <u>Heather Pinney</u> Email: <u>heather.pinney@terraccon.com</u> Phone: _____ Fax: _____			
Project Information Quote No.: <u>16162</u> Client PO: <u>R3137233</u> Client Project: _____				LAB USE ONLY Case File Number: _____ Temp: _____ Lab ID: _____			
Reporting/Invoicing Format <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> Yes <input type="checkbox"/> No				Turn Around Time (TAT)* <input type="checkbox"/> Next Day <input checked="" type="checkbox"/> 2 Business Day <input type="checkbox"/> 3 Business Day <input type="checkbox"/> Standard			
Sample Disposal <input type="checkbox"/> Hold <input checked="" type="checkbox"/> Dispose <input type="checkbox"/> Return *Advanced notice required for Rush Analysis				Specific Date: _____ SAMPLE DESCRIPTION			
SAMPLING Date (mm-dd-yy) Time Matrix** 8/22/14 7:30 water 15-MR-ED-267 ↓ ↓ ↓ 15-MR-8D-208				Number of Containers 1 X Copper 1 X Lead by 200.8			
Comments:				Analysis Requested			
Matrix: B=Biota, DW=Drinking Water, GW=Ground Water, P=Paint, S=Soil, SD=Sediment, SL=Sludge, SW=Surface Water, WW=Wastewater				Field pH (if applicable) Field Temp (if applicable) Metals Field Filtered (Y/N)			
Containers Received				Shipping References			
Sampled By: <u>Emily Kahler</u> Date: <u>8/22/14</u> Time: <u>7:30</u> Received By: _____ Date: _____ Time: _____				Shipped By: _____ Date: <u>8/23/14</u> Time: <u>8:15am</u> Relinquished to: <u>Adaptive By (Signature)</u>			